2	algorithm.		
1		24.	The method of claim 1, wherein the probability matrix is generated
2	by a computer	r.	
1		25.	The method of claim 1, wherein the constraint vector is an
2	algorithm.		
1		26.	The method of claim 1, wherein the constraint vector is generated
2	by a compute	r.	
1		27.	The method of claim 1, wherein the constraint vector is applied to
2	the probability matrix using a computer.		
1		28.	The method of claim 1, wherein the probability matrix is
2	normalized.		
1		29.	The method of claim 1, wherein the DNA sequence is generated
2	from DNA shuffling.		
1		30.	The method of claim 9, further comprising using a DNA sequence
2	encoding the protein having an increase in the property of interest in a DNA shuffling		
3	process.		
1		31.	A method of creating a library of DNA sequences, said method
2	comprising:		
3		a)	providing a substitution scheme produced by applying a constraint
4	vector to a probability matrix wherein the substitution scheme recommends substitution		
5	at at least two residues in a protein of interest; and		
6		b)	creating a library of DNA sequences incorporating substitutions in
7	a DNA seque	ence enc	coding the protein of interest to create a library comprising the

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recommended substitutions.